

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE 1 OF 2 PAGES
2. AMENDMENT/MODIFICATION NO. 0006	3. EFFECTIVE DATE 22 May 2002	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE CORPS OF ENGINEERS 4101 JEFFERSON PLAZA, N.E. ALBUQUERQUE, NEW MEXICO 87109-3435	CODE	7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)			(<input checked="" type="checkbox"/>) 9A. AMENDMENT OF SOLICITATION NO. DACW47-02-B-0011	
			(<input checked="" type="checkbox"/>) 9B. DATED (SEE ITEM 11) 08 April 2002	
			10A. MODIFICATION OF CONTRACTS/ORDER NO.	
			10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(<input checked="" type="checkbox"/>)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

PROJECT: LOMALAND PHASE IV, SOUTHEAST AREA, EL PASO, TEXAS

1. This is Amendment No. 6 to Solicitation No. DACW47-02-B-0011; 08 April 2002. The following revisions shall be incorporated into the specifications. All other provisions shall remain unchanged.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

2. GENERAL PLAN SUBSURFACE INVESTIGATION, BORING LOCATION AND BORING LOGS:

a. After the plate entitled "SE Area General Plan Subsurface Investigations Lomaland IV", insert the attached drawing of "Carolina Basin".

b. After Boring Log Hole No. SE95-45, add the drawing of "Featherlake Basin" and Boring Logs Hole No. FLBA95-1 thru FLBA95-5, attached hereto.

3. SPECIFICATIONS: Delete the following listed pages and substitute the pages attached hereto. On the revised pages, for convenience, changes are emphasized by the amendment number in parentheses before and after changes from the previous issue. All portions of the revised (or new) pages shall apply whether or not changes have been indicated.

Delete Page

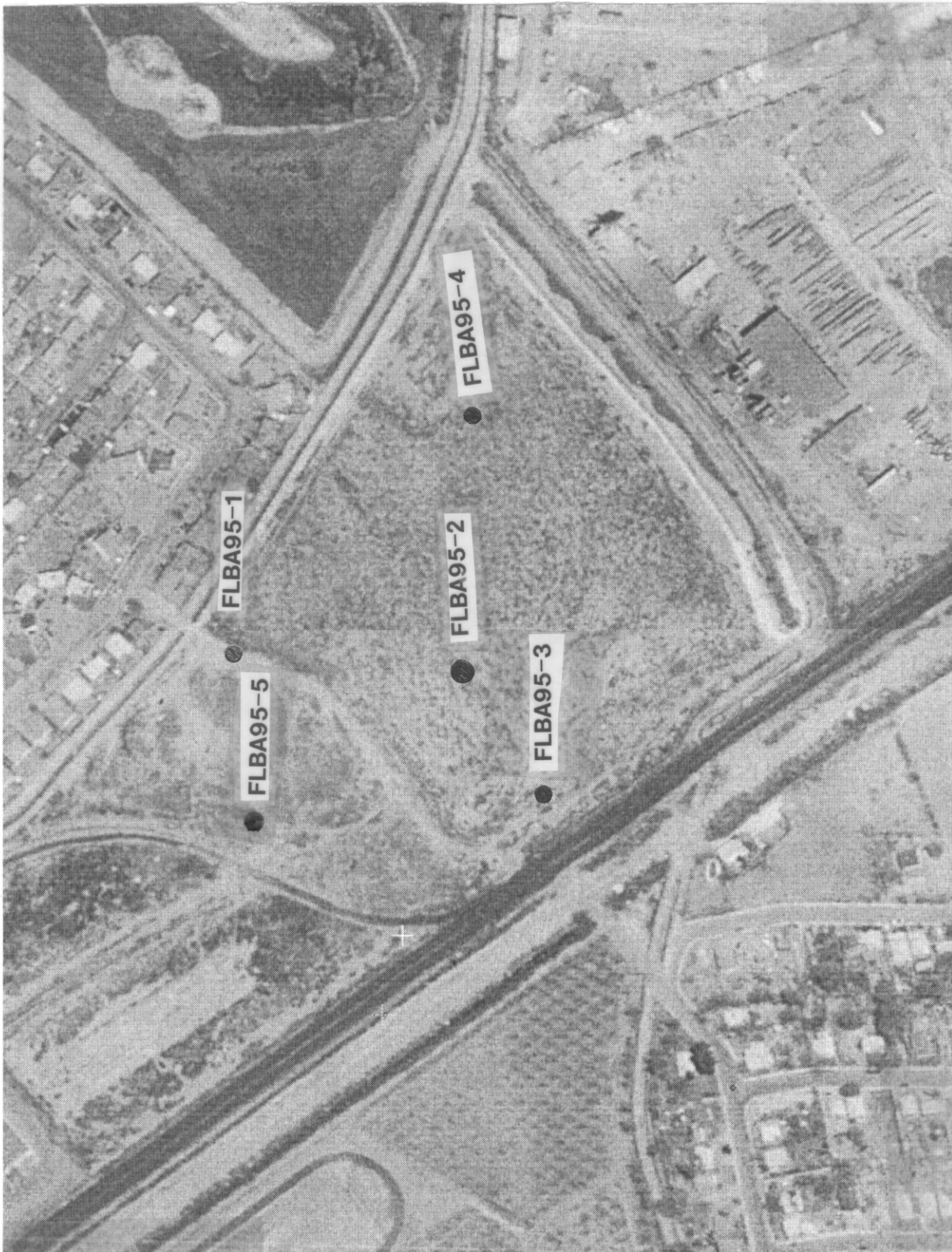
02300-8 thru 02300-9
02330-3 thru 02330-4
02330-18

Insert Page

02300-8 thru 02300-9
02330-3 thru 02330-4
02330-18

/////////LAST ITEM/////////

DACW47-02-B-0011
Amendment No. 6



FEATHERLAKE BASIN

Hole No. FLBA95-1

DRILLING LOG		DIVISION SOUTHWESTERN		INSTALLATION ALBUQUERQUE DIST.		SHEET 1 OF 1 SHEETS	
1. PROJECT S.E. EL PASO AREA				10. SIZE AND TYPE OF BIT H.S.A.			
2. LOCATION (Coordinates or Station) FEATHER LAKE BORROW AREA				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY ALBUQUERQUE DIST.				12. MANUFACTURER'S DESIGNATION OF DRILL C.M.E. 55			
4. HOLE NO. (As shown on drawing title and file number) FLBA95-1				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES N/A	
5. NAME OF DRILLER GEOTEST (MIKE OLSEN)				15. ELEVATION GROUND WATER NOT ENCOUNTERED		16. DATE HOLE STARTED 30 NOV 95 COMPLETED 30 NOV 95	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				17. ELEVATION TOP OF HOLE			
7. THICKNESS OF OVERBURDEN UNKNOWN				18. TOTAL CORE RECOVERY FOR BORING N/A			
8. DEPTH DRILLED INTO ROCK NOT ENCOUNTERED				19. NAME(S) OF INSPECTOR(S) GENE GUTIERREZ			
TOTAL DEPTH OF HOLE 10.0'							

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	BLOW COUNTS SPT TEST e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
2			Silt, sandy, clayey, fn. grained, med. plasticity, brn., damp.		1	Begin 1500 hrs. Trash, debris, etc. @ surface in surrounding area.
4						
6			Sand, fn. grained, silty, brn., nonplastic, pea gravel in minor amounts.		2	5.0'
8						
10			BOTTOM OF HOLE: 10.0'			10.0'
12						
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						

LETTER CLASSIFICATION BASED
ON LABORATORY CLASSIFICATION
(MIL-STD-6198; ASTM D-2487)

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
PROJECT		SOUTHWESTERN		ALBUQUERQUE DIST.		OF 1 SHEETS	
1. PROJECT S.E. EL PASO AREA				10. SIZE AND TYPE OF BIT H.S.A.			
2. LOCATION (Coordinates or Station) FEATHER LAKE BORROW AREA				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY ALBUQUERQUE DIST.				12. MANUFACTURER'S DESIGNATION OF DRILL C.M.E. 55			
4. HOLE NO. (As shown on drawing title and file number) FLBA95-2				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES N/A	
5. NAME OF DRILLER GEOTEST (MIKE OLSEN)				15. ELEVATION GROUND WATER NOT ENCOUNTERED		16. DATE HOLE STARTED 30 NOV 95 COMPLETED 30 NOV 95	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEG. FROM VERT.				17. ELEVATION TOP OF HOLE		18. TOTAL CORE RECOVERY FOR BORING N/A	
7. THICKNESS OF OVERBURDEN UNKNOWN				19. NAME(S) OF INSPECTOR(S) GENE GUTIERREZ		X	
8. DEPTH DRILLED INTO ROCK NOT ENCOUNTERED							
TOTAL DEPTH OF HOLE 10.0'							
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	BLOW COUNTS SPT TEST e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	2		Silt, sandy, clayey, fn. grained, med. plasticity, brn., dry.		1	Begin 1520 hrs.	
	4					CL	
	6		Sand, fn. grained, traces of silt, nonplastic, brn., damp.		2	5.0'	
	8					SM	
	10		BOTTOM OF HOLE: 10.0'			10.0'	
	12						
	14						
	16						
	18						
	20						
	22						
	24						
	26						
	28						
	30						
	32						
	34						
	36						
	38						

LETTER CLASSIFICATION BASED
ON LABORATORY CLASSIFICATION
(MIL-STD-619B; ASTM D-2487)

DIVISION		INSTALLATION		SHEET		
DRILLING LOG		SOUTHWESTERN		ALBUQUERQUE DIST.		
1. PROJECT		10. SIZE AND TYPE OF BIT		11. DATUM FOR ELEVATION SHOWN (78" = HSL)		
S.E. EL PASO AREA		H. S. A.		OF 1 SHEETS		
2. LOCATION (Coordinates or Station)		12. MANUFACTURER'S DESIGNATION OF DRILL				
FEATHER LAKE BORROW AREA		C.M.E. 55				
3. DRILLING AGENCY		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED		
ALBUQUERQUE DIST.		2		UNDISTURBED		
4. HOLE NO. (As shown on drawing title and file number)		14. TOTAL NUMBER CORE BOXES		N/A		
FLBA95-3		15. ELEVATION GROUND WATER NOT ENCOUNTERED				
5. NAME OF DRILLER		16. DATE HOLE		STARTED		
GEOTEST (MIKE OLSEN)		30 NOV 95		COMPLETED		
6. DIRECTION OF HOLE		17. ELEVATION TOP OF HOLE				
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		18. TOTAL CORE RECOVERY FOR BORING		N/A		
7. THICKNESS OF OVERBURDEN		19. NAME(S) OF INSPECTOR(S)		X		
UNKNOWN		GENE GUTIERREZ				
8. DEPTH DRILLED INTO ROCK		TOTAL DEPTH OF HOLE		10.0'		
NOT ENCOUNTERED						
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS <i>Description</i>	BLOW COUNTS SPT TEST	BOX OR SAMPLE NO.	REMARKS <i>Drilling time, water loss, depth of weathering, etc., if significant</i>
	2		Silt, sandy, clayey, med. plasticity, brn., damp.		1	CH
	4		Sand, fn. grained, traces of silt, brn., nonplastic.		2	SM
	6					
	8					
	10		Sand, clayey, silty, wet, med. plast., brn.			No Sample Taken
	10.0'		BOTTOM OF HOLE: 10.0'			
	12					
	14					
	16					
	18					
	20					
	22					
	24					
	26					
	28					
	30					
	32					
	34					
	36					
	38					

LETTER CLASSIFICATION BASED
ON LABORATORY CLASSIFICATION
(MIL-STD-6198; ASTM D-2487)

DRILLING LOG		DIVISION SOUTHWESTERN		INSTALLATION ALBUQUERQUE DIST.		SHEET OF 1 SHEETS	
1. PROJECT S.E. EL PASO AREA				10. SIZE AND TYPE OF BIT 8" V.H. S.A.			
2. LOCATION (Coordinates or Station) FEATHER LAKE BORROW AREA				11. DATUM FOR ELEVATION SHOWN (TBM or HSL)			
3. DRILLING AGENCY ALBUQUERQUE DIST.				12. MANUFACTURER'S DESIGNATION OF DRILL C.M.E. 55			
4. HOLE NO. (As shown on drawing title and file number) FLBA95-4				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		DISTURBED 2	
						UNDISTURBED 0	
5. NAME OF DRILLER GEOTEST				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER NOT ENCOUNTERED			
7. THICKNESS OF OVERBURDEN UNKNOWN				16. DATE HOLE STARTED 30 NOV 95 COMPLETED 30 NOV 95			
8. DEPTH DRILLED INTO ROCK NOT ENCOUNTERED				17. ELEVATION TOP OF HOLE			
TOTAL DEPTH OF HOLE 10.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. NAME(S) OF INSPECTOR(S) GENE GUTIERREZ			

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	BLOW COUNTS SPT TEST e	BOX OR SAMPLE NO. f	REMARKS Drilling time, water loss, depth of weathering, etc., if significant g
	2		Silt, sandy, clayey, fn. grained, med. plasticity, brn., dry, trace of pea gravel.		1	Begin @ 1545 hrs.
	4					
	6		Sand, fn. grained, brn., nonplastic, moist, traces of silt.		2	5.0'
	8					
	10		BOTTOM OF HOLE: 10.0'			10.0'
	12					D.S. Sample from 0' - 5' taken @ 5' offset from this location.
	14					
	16					
	18					
	20					
	22					
	24					
	26					
	28					
	30					
	32					
	34					
	36					
	38					

LETTER CLASSIFICATION BASED ON LABORATORY CLASSIFICATION (MIL-STD-6198; ASTM D-2487)

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
SOUTHWESTERN		ALBUQUERQUE DIST.		OF 1		SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT 8" H.S.A.			
S.E. EL PASO AREA				11. DATUM FOR ELEVATION SHOWN (FBN or MSL)			
2. LOCATION (Coordinates or Station)				12. MANUFACTURER'S DESIGNATION OF DRILL			
FEATHER LAKE BORROW AREA				C.M.E. 55			
3. DRILLING AGENCY				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN			
ALBUQUERQUE DIST.				DISTURBED 2 UNDISTURBED 0			
4. HOLE NO. (As shown on drawing title and file number)				14. TOTAL NUMBER CORE BOXES N/A			
FLBA95-5				15. ELEVATION GROUND WATER NOT ENCOUNTERED			
5. NAME OF DRILLER				16. DATE HOLE			
GEOTEST				STARTED 30 NOV 95 COMPLETED 30 NOV 95			
6. DIRECTION OF HOLE				17. ELEVATION TOP OF HOLE			
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				18. TOTAL CORE RECOVERY FOR BORING N/A			
7. THICKNESS OF OVERBURDEN UNKNOWN				19. NAME(S) OF INSPECTOR(S)			
8. DEPTH DRILLED INTO ROCK NOT ENCOUNTERED				GENE GUTIERREZ			
TOTAL DEPTH OF HOLE 10.0'							

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	SLOW COUNTS SPY TEST	BOX OR SAMPLE NO.	REMARKS (Drilling time, water level, depth of weathering, etc., if significant)
			Silt, sandy, clayey, fn. grained, med. plasticity, brn.		1	Begin 1605 hrs.
	2					
	4					
	6		Sand, fn. grained, traces silt, brn., moist, nonplastic, trace pea gravel to 1/4 "		2	5.0'
	8					
	10		BOTTOM OF HOLE: 10.0'			10.0'
	12					
	14					
	16					
	18					
	20					
	22					
	24					
	26					
	28					
	30					
	32					
	34					
	36					
	38					

LETTER CLASSIFICATION BASED
ON LABORATORY CLASSIFICATION
(MIL-STD-619B; ASTM D-2487)

3.9.2.1 Subgrade for Pavements

Subgrade for pavements shall be compacted to at least 95 percentage laboratory maximum density for the depth below the surface of the pavement shown. When more than one soil classification is present in the subgrade, the top 8 inches of subgrade shall be scarified, windrowed, thoroughly blended, reshaped, and compacted.

3.10 FINISHING

The surface of excavations, embankments, and subgrades shall be finished to a smooth and compact surface in accordance with the lines, grades, and cross sections or elevations shown. The degree of finish for graded areas shall be within 0.1 foot of the grades and elevations indicated except that the degree of finish for subgrades shall be specified in paragraph SUBGRADE PREPARATION. Gutters and ditches shall be finished in a manner that will result in effective drainage. The surface of areas to be turfed shall be finished to a smoothness suitable for the application of turfing materials.

3.11 PLACING TOPSOIL

On areas to receive topsoil, the compacted subgrade soil shall be scarified to a 2 inch depth for bonding of topsoil with subsoil. Topsoil then shall be spread evenly to a thickness of 4 inches and graded to the elevations and slopes shown. Topsoil shall not be spread when frozen or excessively wet or dry. Material required for topsoil in excess of that produced by excavation within the grading limits shall be obtained from offsite areas.

3.12 TESTING

Testing shall be performed by an approved commercial testing laboratory or by the Contractor subject to approval. If the Contractor elects to establish testing facilities, no work requiring testing will be permitted until the Contractor's facilities have been inspected and approved by the Contracting Officer. The first inspection will be at the expense of the Government. Cost incurred for subsequent inspection required because of failure of the first inspection will be charged to the Contractor. Field in-place density shall be determined in accordance with ASTM D 1556 ASTM D 2922. When ASTM D 2922 is used, the calibration curves shall be checked and adjusted using only the sand cone method as described in ASTM D 1556. ASTM D 2922 results in a wet unit weight of soil and when using this method ASTM D 3017 shall be used to determine the moisture content of the soil. The calibration curves furnished with the moisture gauges shall also be checked along with density calibration checks as described in ASTM D 3017; the calibration checks of both the density and moisture gauges shall be made at the beginning of a job on each different type of material encountered and at intervals as directed by the Contracting Officer. When test results indicate, as determined by the Contracting Officer, that compaction is not as specified, the material shall be removed, replaced and recompactd to meet specification requirements. Tests on recompactd areas shall be performed to determine conformance with specification requirements. Inspections and test results shall be certified.

These certifications shall state

(6)

that the results are representative of the materials or conditions being certified by the tests. The following number of tests, if performed at the appropriate time, will be the minimum acceptable for each type operation. (6)

3.12.1 Fill and Backfill Material Gradation

One test per 650 cubic yards stockpiled or in-place source material. Gradation of fill and backfill material shall be determined in accordance with ASTM D 422.

3.12.2 In-Place Densities

a. One test per 500 square feet, or fraction thereof, of each lift of fill or backfill areas compacted by other than hand-operated machines.

b. One test per 250 square feet, or fraction thereof, of each lift of fill or backfill areas compacted by hand-operated machines.

c. One test per 165 linear feet, or fraction thereof, of each lift of embankment or backfill for roads.

3.12.3 Check Tests on In-Place Densities

If ASTM D 2922 is used, in-place densities shall be checked by ASTM D 1556 as follows:

a. One check test per lift for each 1000 square feet, or fraction thereof, of each lift of fill or backfill compacted by other than hand-operated machines.

b. One check test per lift for each 500 square feet, of fill or backfill areas compacted by hand-operated machines.

c. One check test per lift for each 650 linear feet, or fraction thereof, of embankment or backfill for roads.

3.12.4 Moisture Contents

In the stockpile, excavation, or borrow areas, a minimum of two tests per day per type of material or source of material being placed during stable weather conditions shall be performed. During unstable weather, tests shall be made as dictated by local conditions and approved by the Contracting Officer.

3.12.5 Optimum Moisture and Laboratory Maximum Density

Tests shall be made for each type material or source of material including borrow material to determine the optimum moisture and laboratory maximum density values. One representative test per 650 cubic yards of fill and backfill, or when any change in material occurs which may affect the optimum moisture content or laboratory maximum density.

1.3.3 Haul Roads

Haul roads shall be located and constructed as approved. They shall be designed to maintain the intended traffic, to be free draining and shall be maintained in good condition throughout the contract period, unless otherwise directed. Haul roads within the area of contact between the embankment and its foundation and abutments shall be removed and the area shall be treated as specified in paragraph PREPARATION OF FOUNDATION, PARTIAL FILL SURFACE, AND ABUTMENTS.

(6) 1.3.4 Designated Borrow Areas.

The Contractor shall obtain approximately 3,000 cubic yards of stockpiled borrow material from the Lomaland Basin, which is approximately one mile from the site. Additional required borrow shall be obtained from Feather Lake, located approximately 8 miles from the site. Exact location and limits of borrow at Feather Lake shall be as determined by the Contracting Officer. During excavation operations, borrow area shall be excavated to provide adequate drainage. Borrow area shall be neatly trimmed and drained after the excavation is completed. The Contractor shall ensure that excavation of the borrow area results in minimum detrimental effects on natural environmental conditions.

1.3.5 Stockpiling from Approved Borrow Sources

(6)

When the excavation from approved borrow sources progresses at a faster rate than placement in the fill is being accomplished, such excavated material shall be stockpiled at approved locations adjacent to the work until its use is authorized. No payment will be made for such stockpiling nor for the reloading and hauling of this material to its final position in the embankment.

PART 2- PRODUCTS

2.1 MATERIALS

Classification of soils will be in accordance with ASTM D 2387.

2.1.1 General

(6)

Materials for embankment fills shall be secured from required excavations and from the designated borrow areas. The intention is to use the most suitable materials obtainable from these sources. Material to be wasted will be specifically designated at the time the material is excavated. Materials containing brush, roots, sod or other perishable materials will not be considered suitable. The suitability of the materials shall be subject to approval and their disposition in the embankment will be as directed. The Contractor shall excavate in the designated borrow areas in the location determined by the Contracting Officer, whenever such control is necessary to obtain the type of material required for the embankment. Mixing and/or blending of materials during the excavating process at the borrow or required excavation areas may be required.

(6)

(6)

(6)

2.1.2 Semi-Imperious Fill

Semi-imperious fill shall be obtained by processing if necessary, available material from required excavation. The material shall have a maximum size of 1 inch and 20 percent or more of the material by weight shall pass a standard No. 200 sieve.

2.1.3 Random Fill

Material for compacted random fill shall consist of any or all types of material which, from the standpoint of compacted stability, are suitable for use in the dam embankment. Soft weathered rock, which breaks up under rolling to form essentially a soil and which compacts without excessive voids, may be used for random fill, if approved. Maximum rock size is 6 inches. Maximum rock size is 3 inches within 2 feet of a concrete structure. A minimum of 15 percent by weight passing the No. 200 sieve.

2.1.4 Uncompacted Fill

Except as otherwise required, material for uncompacted fill may consist of any or all types of material available from required excavations and designated borrow areas.

2.1.5 Backfill

Backfill shall consist of material of a type and quality conforming to that specified for the contiguous embankment fill material, unless otherwise directed.

2.1.6 Filter Drainage Layers

Filter materials shall be composed of tough, durable particles; shall be reasonably free from thin, flat and elongated pieces; and shall contain no organic matter nor soft, friable particles in quantities considered objectionable by the Contracting Officer. Filter materials shall consist of sand, gravel, or crushed stone, well graded between the limits specified below:

SIEVE SIZE	PERCENT BY WEIGHT PASSING
3 inch	100
3/4 inch	90-100
3/8 inch	75-90
No. 4	60-80
(3)	
No. 20	20-45
No. 40	15-30
No. 100	5-15
No. 200	0-5
(6)	

(6)

4.2.2 Waste Material

No separate payment will be made for material wasted and removed from the site and all costs shall be included in the contract price for excavation of the material as described in the Section, 02300 EARTHWORK.

(6) 4.2.2A Borrow Material

No separate payment will be made for borrow materials and all costs shall be included in the contract price for compacted fill.

(6)

4.2.3 Additional Rolling for Compaction

Additional rolling for compaction will be paid for at the contract price per roller hour on the SCHEDULE for Item No. 0005, "Additional Rolling for Compaction."

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